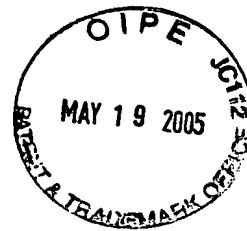


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<110> BARCLAY, A. Neil  
BROWN, Marion H.  
GORMAN, Daniel M.  
LANIER, Lewis L.  
WRIGHT, Gavin J.  
CHERWINSKI, Holly  
PHILLIPS, Joseph H.  
HOEK, Robert M.  
SEDGWICK, Jonathan D.

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<141> 2001-11-13

<150> PCT US00/12998

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cac gta gca gta ctc ttg atc tgg ggg gtc ttc gcg gct gag tca agt 162  
His Val Ala Val Leu Leu Ile Trp Gly Val Phe Ala Ala Glu Ser Ser  
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Asn Phe Gln Asn Ile Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val				
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Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val				
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Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu Lys Ile Ser Gly				
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tgc aga aaa tgt aaa ttg cca aaa tcg gga gct act cca gat att gag	930			
Cys Arg Lys Cys Lys Leu Pro Lys Ser Gly Ala Thr Pro Asp Ile Glu				
245 250 255				
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Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys Ser Asn Pro				



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 Leu Tyr Asp Thr Val Thr Thr Thr Glu Ala His Pro Ala Ser Gln Gly  
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 Lys Val Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser  
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 Cys Ile Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His Glu Ser Asn  
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 Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp Leu Ala Pro  
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 Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Arg Tyr Ser  
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Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile Tyr Asp Leu  
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 125 130 135  
 Thr Ala Val Cys Glu Ala Ile Ala Gly Lys Pro Ala Ala Gln Ile Ser  
 140 145 150  
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 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Ser His Val  
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 185 190 195 200  
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 205 210 215  
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 220 225 230  
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Thr	Ala	Asn	Leu	Gly	Leu	Leu	Leu	Ile	Leu	Thr	Ile	Phe	Leu	Val	Ala			
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Glu	Ala	Glu	Gly	Ala	Ala	Gln	Pro	Asn	Asn	Ser	Leu	Met	Leu	Gln	Thr			
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Ser	Lys	Glu	Asn	His	Ala	Leu	Ala	Ser	Ser	Ser	Leu	Cys	Met	Asp	Glu			
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Lys	Gln	Ile	Thr	Gln	Asn	Tyr	Ser	Lys	Val	Leu	Ala	Glu	Val	Asn	Thr			
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tca	tgg	cct	gta	aag	atg	gct	aca	aat	gct	gtg	ctt	tgt	tgc	cct	cct		474	
Ser	Trp	Pro	Val	Lys	Met	Ala	Thr	Asn	Ala	Val	Leu	Cys	Cys	Pro	Pro			
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Ile	Ala	Leu	Arg	Asn	Leu	Ile	Ile	Ile	Thr	Trp	Glu	Ile	Ile	Leu	Arg			
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Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Lys	Lys	Glu	Thr	Asn	Glu	Thr			
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Lys	Glu	Thr	Asn	Cys	Thr	Asp	Glu	Arg	Ile	Thr	Trp	Val	Ser	Arg	Pro			
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gat	cag	aat	tcg	gac	ctt	cag	att	cgt	acc	gtg	gcc	atc	act	cat	gac		666	
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Gly	Tyr	Tyr	Arg	Cys	Ile	Met	Val	Thr	Pro	Asp	Gly	Asn	Phe	His	Arg			
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Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Thr	Leu	Phe	Gln			
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Asn	Arg	Asn	Arg	Thr	Ala	Val	Cys	Lys	Ala	Val	Ala	Gly	Lys	Pro	Ala			
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Ala	His	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Asp	Cys	Ala	Thr	Lys	Gln	Glu			
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Tyr	Trp	Ser	Asn	Gly	Thr	Val	Thr	Val	Lys	Ser	Thr	Cys	His	Trp	Glu			
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Val	His	Asn	Val	Ser	Thr	Val	Thr	Cys	His	Val	Ser	His	Leu	Thr	Gly			
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atc agc aaa att ata tat tcc ata tat cat cct tac tat tat tat tta 1050  
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gac cat cgt ggg att cat ttg gtt gtt gaa agt caa tgg ctg cag aaa 1098  
 Asp His Arg Gly Ile His Leu Val Val Glu Ser Gln Trp Leu Gln Lys  
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 Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val  
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 Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala  
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 Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr  
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 Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys  
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 Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile



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Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro		
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Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro		
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Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala		
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Val Ala Gly Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp		
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Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys		
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Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His		
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Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro		
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Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His		
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Val	Ser	Val	Gln	Ile	Gly	Thr	Lys	Ala	Leu	Leu	Cys	Cys	Phe	Ser	Ile	
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Pro	Leu	Thr	Lys	Ala	Val	Leu	Ile	Thr	Trp	Ile	Ile	Lys	Leu	Arg	Gly	
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Leu	Pro	Ser	Cys	Thr	Ile	Ala	Tyr	Lys	Val	Asp	Thr	Lys	Thr	Asn	Glu	
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Thr	Ser	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro	Asp	His	
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agt	cct	gaa	ctt	cag	atc	agt	gca	gtg	acc	ctc	cag	cat	gag	ggg	act	387
Ser	Pro	Glu	Leu	Gln	Ile	Ser	Ala	Val	Thr	Leu	Gln	His	Glu	Gly	Thr	
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Tyr	Thr	Cys	Glu	Thr	Val	Thr	Pro	Glu	Gly	Asn	Phe	Glu	Lys	Asn	Tyr	
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Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Pro	Glu	Lys	
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Asn	Arg	Ser	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala	Ala	Gln	
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Ile	Ser	Trp	Ser	Pro	Asp	Gly	Asp	Cys	Val	Thr	Thr	Ser	Glu	Ser	His	
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Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu	Gln	Asn	
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Asn	Val	Ser	Asp	Val	Ser	Cys	Ile	Val	Ser	His	Leu	Thr	Gly	Asn	Gln	
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Cys	Ile	Cys	Leu	Leu	Lys	Ile	Ser	Gly	Phe	Arg	Lys	Cys	Lys	Leu	Pro	
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aaa	tta	gaa	gct	act	tca	gct	att	gag	gag	gat	gaa	atg	cag	cct	tat	867
Lys	Leu	Glu	Ala	Thr	Ser	Ala	Ile	Glu	Glu	Asp	Glu	Met	Gln	Pro	Tyr	
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Ala Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys  
 265 270 275

gtg gag gca ttt cca gta tca caa ggc gaa gtc aat ggc aca gac tgc 963  
 Val Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys  
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ctt act ttg tgc gcc att gga atc tagaaccaag aaaaaagaag tcaagagaca 1017  
 Leu Thr Leu Ser Ala Ile Gly Ile  
 295 300

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 ctcttccaaa gctattaaaa agcacaaatg ttctaatagaa attgcattta aattctatca 1137  
 ttggaagttt ggaatctctg ctgctacctg ttaatttttag gaagaactga tttaattatt 1197  
 acaaagaaag cacatgggta tggtgaaata tcaagttgtg caataaagta tgatgaaaac 1257  
 tgagtttcct caagaaataa ctgcaggagg aacaatcatc actaaagaat ttcatgtgag 1317  
 ttcttacaaa aaaattccta tgtatacatg actatgggtat gtgtgtccaa ttacatgttt 1377  
 atttacaaat gtgtatatat gcacacattt gcttttcagg acatctcctt gtaaaaaaca 1437  
 cactggagtt ttggatttat aaaagcttat aaagtgagca ttggagatat ttt 1490

<210> 6  
 <211> 326  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: rodent; surmised  
 Mus musculus

<400> 6  
 Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu Ile Trp  
 -25 -20 -15 -10  
 Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr  
 -5 -1 1 5  
 Gln Asn Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser  
 10 15 20  
 Val Gln Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu  
 25 30 35  
 Thr Lys Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro  
 40 45 50 55  
 Ser Cys Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn Glu Thr Ser  
 60 65 70  
 Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro  
 75 80 85  
 Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly Thr Tyr Thr  
 90 95 100



Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn Tyr Asp Leu  
 105 110 115  
 Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Glu Lys Asn Arg  
 120 125 130 135  
 Ser Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser  
 140 145 150  
 Trp Ser Pro Asp Gly Asp Cys Val Thr Thr Ser Glu Ser His Ser Asn  
 155 160 165  
 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val  
 170 175 180  
 Ser Asp Val Ser Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu  
 185 190 195  
 Ser Ile Glu Leu Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile  
 200 205 210 215  
 Pro Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile  
 220 225 230  
 Cys Leu Leu Lys Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys Leu  
 235 240 245  
 Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser  
 250 255 260  
 Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val Glu  
 265 270 275  
 Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu Thr  
 280 285 290 295  
 Leu Ser Ala Ile Gly Ile  
 300

<210> 7  
 <211> 1010  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: primate; surmised  
 Homo sapiens

<220>  
 <221> CDS

<222> (1)..(750)

<400> 7  
 atg ggt gga aag cag atg aca cag aac tat tca aca att ttt gca gaa 48  
 Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu  
 1 5 10 15  
 ggt aac att tca cag cct gta ctg atg gat ata aat gct gtg ctt tgt 96  
 Gly Asn Ile Ser Gln Pro Val Leu Met Asp Ile Asn Ala Val Leu Cys  
 20 25 30  
 tgc cct cct att gca tta aga aat ttg atc ata ata aca tgg gaa ata 144



Cys	Pro	Pro	Ile	Ala	Leu	Arg	Asn	Leu	Ile	Ile	Ile	Thr	Trp	Glu	Ile		
		35					40					45					
atc	ctg	aga	ggc	cag	cct	tcc	tgc	aca	aaa	gcc	tac	aag	aaa	gaa	aca	192	
Ile	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Lys	Lys	Glu	Thr		
	50					55					60						
aat	gag	acc	aag	gaa	acc	aac	tgt	act	gtt	gag	aga	ata	acc	tgg	gtc	240	
Asn	Glu	Thr	Lys	Glu	Thr	Asn	Cys	Thr	Val	Glu	Arg	Ile	Thr	Trp	Val		
65					70					75					80		
tct	aga	cct	gat	cag	aat	tcg	gac	ctt	cag	att	cgt	ccg	gtg	gac	acc	288	
Ser	Arg	Pro	Asp	Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro	Val	Asp	Thr		
				85					90					95			
act	cat	gac	ggg	tat	tac	aga	ggc	ata	gtg	gta	aca	cct	gat	ggg	aat	336	
Thr	His	Asp	Gly	Tyr	Tyr	Arg	Gly	Ile	Val	Val	Thr	Pro	Asp	Gly	Asn		
			100					105					110				
ttc	cat	cgt	gga	tat	cac	ctc	caa	gtg	tta	gtt	aca	ccc	gaa	gtg	aac	384	
Phe	His	Arg	Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Asn		
		115					120					125					
cta	ttt	caa	agc	agg	aat	ata	act	gca	gta	tgc	aag	gca	gtt	aca	ggg	432	
Leu	Phe	Gln	Ser	Arg	Asn	Ile	Thr	Ala	Val	Cys	Lys	Ala	Val	Thr	Gly		
	130					135					140						
aag	cca	gct	gcc	cag	atc	tcc	tgg	atc	cca	gag	gga	tct	att	ctt	gcc	480	
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Ser	Ile	Leu	Ala		
145					150					155					160		
act	aag	caa	gaa	tac	tgg	ggc	aat	ggc	aca	gtg	acg	gtt	aag	agt	aca	528	
Thr	Lys	Gln	Glu	Tyr	Trp	Gly	Asn	Gly	Thr	Val	Thr	Val	Lys	Ser	Thr		
				165				170						175			
tgc	ccc	tgg	gag	ggc	cac	aag	tct	act	gtg	acc	tgc	cat	gtc	tcc	cat	576	
Cys	Pro	Trp	Glu	Gly	His	Lys	Ser	Thr	Val	Thr	Cys	His	Val	Ser	His		
			180					185					190				
ttg	act	ggc	aac	aag	agt	ctg	tcc	gta	aag	ttg	aat	tca	ggt	ctc	aga	624	
Leu	Thr	Gly	Asn	Lys	Ser	Leu	Ser	Val	Lys	Leu	Asn	Ser	Gly	Leu	Arg		
		195					200					205					
acc	tca	gga	tct	cca	gcg	ttg	tcc	tta	ctg	atc	att	ctt	tat	gtg	aaa	672	
Thr	Ser	Gly	Ser	Pro	Ala	Leu	Ser	Leu	Leu	Ile	Ile	Leu	Tyr	Val	Lys		
		210				215					220						
ctc	tct	ctt	ttt	gtg	gtc	att	ctg	gtc	acc	aca	gga	ttt	gtt	ttc	ttc	720	
Leu	Ser	Leu	Phe	Val	Val	Ile	Leu	Val	Thr	Thr	Gly	Phe	Val	Phe	Phe		
225					230					235					240		
cag	agg	ata	aat	cat	gtc	aga	aaa	gtt	ctt	taaagaagaa	ggaagggtct					770	
Gln	Arg	Ile	Asn	His	Val	Arg	Lys	Val	Leu								
			245					250									
tcttttgctt	ctcctccttg	tctctggact	gcaacattgg	tgagatgagt	gatgggtccag											830	
cagtgaactt	gggccatgga	tgatgttaag	gatagaagcc	actcagtagg	atagaagaaa											890	
agaaagatgg	aagaaggatc	ctgggcttga	tgaccatgaa	gtttccctat	aaaccctcaa											950	
ccacctattc	attgacttct	tttgtgttag	agtgaataaa	attttggttca	tgccagtgtt											1010	







<220>

<223> Description of Unknown Organism: rodent; surmised  
Mus musculus

<220>

<221> CDS

<222> (1)..(582)

<400> 9

aga ggc cag cct tcc tgc ata atg gcc tac aaa gta gaa aca aag gag	48
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu	
1 5 10 15	
acc aat gaa acc tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct	96
Thr Asn Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro	
20 25 30	
gac cac att cct gac ctt cag atc agt gcg gtg gcc ctc cag cat gag	144
Asp His Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu	
35 40 45	
ggg aat tac tta tgt gag ata aca aca cct gaa ggg aat ttc cat aaa	192
Gly Asn Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys	
50 55 60	
gtc tat gac ctc caa gtg ctg gtg ccc cct gaa gta acc tac ttt ctc	240
Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Leu	
65 70 75 80	
ggg gaa aat aga act gca gtt tgt gag gca atg gca ggc aag cct gct	288
Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala	
85 90 95	
gca cag atc tct tgg act cca gat ggg gac tgt gtc act aag agt gag	336
Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu	
100 105 110	
tca cac agc aat ggc act gtg act gtc agg agc act tgc cac tgg gag	384
Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu	
115 120 125	
cag aac aat gtg tct gct gtg tcc tgc att gtc tct cat tcg act ggt	432
Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His Ser Thr Gly	
130 135 140	
aat cag tct ctg tcc ata gaa ctg agt aga ggt acc acc agc acc acc	480
Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Thr Thr Ser Thr Thr	
145 150 155 160	
cct tcc ttg ctg acc att ctc tac gtg aaa atg gtc ctt ttg ggg att	528
Pro Ser Leu Leu Thr Ile Leu Tyr Val Lys Met Val Leu Leu Gly Ile	
165 170 175	
att ctt ctt aaa gtg gga ttt gct ttc ttc cag aag aga aat gtt acc	576
Ile Leu Leu Lys Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Val Thr	
180 185 190	
aga aca tgaatatcca gatttctgga agctcattag tctgatgaca cataccagaa	632
Arg Thr	
aacagcattt gtaatcaact ttctcattgg aatccagctt acccgtcctt gctgtcttca	692
tgtttgtag acactcacct ccaaattctt aactgagaag ggctcctgtc taaaggaaat	752



atggggacaa attgtggagc atagaccaaa agaaaggcca tccagagact gccccaccta 812  
 aggacccatc ccatatacag acaccaaacc cagacactac tgaagatgct gcgaagcggt 872  
 tgctgacagg agcctgttat agctgtctcc tgagaggctc agccagagcc tgacaaatac 932  
 ataggtagat gcttgcagcc aacaactgga ctgagcaaaa aatctccatt ggaggagtta 992  
 gagaaaggac tgaagagggt gaaagggttt gcagcccat aggaagaaca acaatatcaa 1052  
 ccaaccagat ctcccagagc tcccaggac taa 1085

<210> 10  
 <211> 194  
 <212> PRT  
 <213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised  
 Mus musculus

<400> 10

Arg	Gly	Gln	Pro	Ser	Cys	Ile	Met	Ala	Tyr	Lys	Val	Glu	Thr	Lys	Glu
1				5					10					15	
Thr	Asn	Glu	Thr	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro
			20					25					30		
Asp	His	Ile	Pro	Asp	Leu	Gln	Ile	Ser	Ala	Val	Ala	Leu	Gln	His	Glu
		35					40					45			
Gly	Asn	Tyr	Leu	Cys	Glu	Ile	Thr	Thr	Pro	Glu	Gly	Asn	Phe	His	Lys
	50					55					60				
Val	Tyr	Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Leu
65				70						75					80
Gly	Glu	Asn	Arg	Thr	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala
			85						90					95	
Ala	Gln	Ile	Ser	Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val	Thr	Lys	Ser	Glu
			100					105					110		
Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu
		115				120						125			
Gln	Asn	Asn	Val	Ser	Ala	Val	Ser	Cys	Ile	Val	Ser	His	Ser	Thr	Gly
	130					135					140				
Asn	Gln	Ser	Leu	Ser	Ile	Glu	Leu	Ser	Arg	Gly	Thr	Thr	Ser	Thr	Thr
145					150					155					160
Pro	Ser	Leu	Leu	Thr	Ile	Leu	Tyr	Val	Lys	Met	Val	Leu	Leu	Gly	Ile
				165					170					175	
Ile	Leu	Leu	Lys	Val	Gly	Phe	Ala	Phe	Phe	Gln	Lys	Arg	Asn	Val	Thr
			180					185					190		
Arg	Thr														

<210> 11



<211> 1354  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: rodent; surmised  
 Mus musculus

<220>  
 <221> CDS  
 <222> (42)..(875)

<220>  
 <221> mat\_peptide  
 <222> (117)..(875)

<400> 11  
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 Met His Ala Leu Gly  
 -25

agg act ctg gct ttg atg tta ctc atc ttc atc act att ttg gtg cct 104  
 Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile Thr Ile Leu Val Pro  
 -20 -15 -10 -5

gag tca agt tgt tca gtg aaa gga cgg gag gag atc cca ccg gat gat 152  
 Glu Ser Ser Cys Ser Val Lys Gly Arg Glu Glu Ile Pro Pro Asp Asp  
 -1 1 5 10

tca ttt cct ttt tca gat gat aat atc ttc cct gat gga gtg ggc gtc 200  
 Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro Asp Gly Val Gly Val  
 15 20 25

acc atg gag att gag att atc act cca gtg tct gta cag ata ggt atc 248  
 Thr Met Glu Ile Glu Ile Ile Thr Pro Val Ser Val Gln Ile Gly Ile  
 30 35 40

aag gct cag ctt ttc tgt cat cct agt cca tca aaa gaa gca aca ctt 296  
 Lys Ala Gln Leu Phe Cys His Pro Ser Pro Ser Lys Glu Ala Thr Leu  
 45 50 55 60

aga ata tgg gaa ata act ccc aga gac tgg cct tcc tgc aga cta ccc 344  
 Arg Ile Trp Glu Ile Thr Pro Arg Asp Trp Pro Ser Cys Arg Leu Pro  
 65 70 75

tac aga gca gag ttg cag cag atc agt aaa aaa atc tgt act gag aga 392  
 Tyr Arg Ala Glu Leu Gln Gln Ile Ser Lys Lys Ile Cys Thr Glu Arg  
 80 85 90

gga acc act agg gtc cct gca cat cac cag agt tct gac ctt ccc atc 440  
 Gly Thr Thr Arg Val Pro Ala His His Gln Ser Ser Asp Leu Pro Ile  
 95 100 105

aaa tca atg gcc ctc aag cat gat ggg cat tac tca tgt cgg ata gaa 488  
 Lys Ser Met Ala Leu Lys His Asp Gly His Tyr Ser Cys Arg Ile Glu  
 110 115 120

aca aca gat ggg att ttc caa gag aga cat agc atc caa gtg cca ggg 536  
 Thr Thr Asp Gly Ile Phe Gln Glu Arg His Ser Ile Gln Val Pro Gly  
 125 130 135 140

gaa aat aga act gta gtt tgt gag gca att gca agc aag cct gct atg 584  
 Glu Asn Arg Thr Val Val Cys Glu Ala Ile Ala Ser Lys Pro Ala Met  
 145 150 155



cag atc ttg tgg act cca gat gag gac tgt gtc act aag agt aaa tca 632  
Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val Thr Lys Ser Lys Ser  
160 165 170

cac aat gac acc atg att gtc agg agc aag tgc cac agg gag aaa aac 680  
His Asn Asp Thr Met Ile Val Arg Ser Lys Cys His Arg Glu Lys Asn  
175 180 185

aat ggc cac agt gtg ttc tgc ttt atc tcc cat ttg act gat aac tgg 728  
Asn Gly His Ser Val Phe Cys Phe Ile Ser His Leu Thr Asp Asn Trp  
190 195 200

att ctc tcc atg gaa cag aat cga ggt aca acc agc atc ctg cct tcc 776  
Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr Ser Ile Leu Pro Ser  
205 210 215 220

ttg ctg agc att ctc tat gtg aaa ctg gct gta act gtt ctc atc gta 824  
Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val Thr Val Leu Ile Val  
225 230 235

gga ttt gct ttt ttc cag aag aga aat tat ttc aga gtg cca gaa ggc 872  
Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe Arg Val Pro Glu Gly  
240 245 250

tcc tgaggagagt ggtctgtggt taagatgaga tttaccacca tctgaaagac 925  
Ser

atcttgtcta ccgcgcagcg tgctgagatt ccgagaagca gccacagaac ctactaggaa 985

gacaaatctg atgtggttgt caatcctttc aatggacctg agtacttcta taaacccgag 1045

tgaggttgtg ctggacccag gagccaggct aggtcatata tgttgatttt tgctgcaaga 1105

cctcatgggtt tatctacaaa tcttaaattc tttcacttcc agtttttaaaa cttttggccc 1165

aagcattttta tccacagcat aacaccttta aagaaactct cccacggaaa ctgctgggttc 1225

catggaatgg aaaattgcaa catgggtttac aagacagtgc aaaccaagca gcattccaag 1285

atatgagctt cagaaaagtta caggaactgt cttgggacga gaaagaagga ttaaatagtt 1345

cccagtccc 1354

<210> 12  
<211> 278  
<212> PRT  
<213> Unknown

<220>  
<223> Description of Unknown Organism: rodent; surmised  
Mus musculus

<400> 12  
Met His Ala Leu Gly Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile  
-25 -20 -15 -10  
Thr Ile Leu Val Pro Glu Ser Ser Cys Ser Val Lys Gly Arg Glu Glu  
-5 -1 1 5  
Ile Pro Pro Asp Asp Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro  
10 15 20



Asp Gly Val Gly Val Thr Met Glu Ile Glu Ile Ile Thr Pro Val Ser  
 25 30 35  
 Val Gln Ile Gly Ile Lys Ala Gln Leu Phe Cys His Pro Ser Pro Ser  
 40 45 50 55  
 Lys Glu Ala Thr Leu Arg Ile Trp Glu Ile Thr Pro Arg Asp Trp Pro  
 60 65 70  
 Ser Cys Arg Leu Pro Tyr Arg Ala Glu Leu Gln Gln Ile Ser Lys Lys  
 75 80 85  
 Ile Cys Thr Glu Arg Gly Thr Thr Arg Val Pro Ala His His Gln Ser  
 90 95 100  
 Ser Asp Leu Pro Ile Lys Ser Met Ala Leu Lys His Asp Gly His Tyr  
 105 110 115  
 Ser Cys Arg Ile Glu Thr Thr Asp Gly Ile Phe Gln Glu Arg His Ser  
 120 125 130 135  
 Ile Gln Val Pro Gly Glu Asn Arg Thr Val Val Cys Glu Ala Ile Ala  
 140 145 150  
 Ser Lys Pro Ala Met Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val  
 155 160 165  
 Thr Lys Ser Lys Ser His Asn Asp Thr Met Ile Val Arg Ser Lys Cys  
 170 175 180  
 His Arg Glu Lys Asn Asn Gly His Ser Val Phe Cys Phe Ile Ser His  
 185 190 195  
 Leu Thr Asp Asn Trp Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr  
 200 205 210 215  
 Ser Ile Leu Pro Ser Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val  
 220 225 230  
 Thr Val Leu Ile Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe  
 235 240 245  
 Arg Val Pro Glu Gly Ser  
 250

<210> 13  
 <211> 981  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: rodent; surmised  
 Rattus rattus

<220>  
 <221> misc\_feature  
 <222> (1)..(981)  
 <223> n may be a, c, g, or t

<400> 13  
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 gcngarwsnw sntgyccnga yaaraaycar acnatgcara ayaaywsnws nacnatgacn 120



gargtnaaya cnaengtntt ygtncaratg ggnaaraarg cnytnyntg ytgyccnwsn 180  
 athwsnytna cnaargtnat hytnathacn tggacnatha cnytnmgngg ncarccnwsn 240  
 tgyathathw sntayaargc ngayacnmgn garacncayg arwsnaaytg ywsngaymgn 300  
 wsnathacnt gggcnwsnac nccngayytn gcncngayy tncarathws ngcngtngcn 360  
 ytnarcayg arggnmgnta ywsntgygay athgcngtnc cngayggnaa yttycaraay 420  
 athtaygayy tncargtnyt ngtnccncn gargtnacnc ayttccngg ngaraaymgn 480  
 acngcngtnt gygargcnat hgcnngnaar ccngcngcnc arathwsntg gacncngay 540  
 ggngaytgyg tngcnaaraa ygarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600  
 tgycaytggg arcarwsnca ygtnwsngtn gtnttytgyg tngtnwsnca yytnacnacn 660  
 ggnaaycarw snytnwsnat hgarytnggn mgngggngng aycarytnyt nggnwsntay 720  
 athcartaya thathccnws nathathath ytnathatha thggntgyat htgyytnyt 780  
 aarathwsng gntgymgnaa rtgyaarytn ccnaarwsng gngcnacncc ngayathgar 840  
 gargaygara tgcarcnta ygcnwsntay acngaraarw snaayccnyt ntaygayacn 900  
 gtnacnacna cngargcnca yccngcnwsn carggnaarg tnaayggnac ngaytgyytn 960  
 acnytnwsng cnatgggnat h 981

<210> 14  
 <211> 885  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: primate; surmised  
 Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(885)  
 <223> n may be a, c, g, or t

<400> 14  
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 gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120  
 garaaycayg cnytngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180  
 taywsnaarg tnytngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygc 240  
 gtnytnygyt gyccnccnat hgcnymgn aayytnatha thathacntg ggarathath 300  
 ytnmgnggnc arccnwsntg yacnaargcn tayaaraarg aracnaayga racnaargar 360  
 acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420  
 carathmgna cngtngcnat hacncaygay ggntaytaym gntgyathat ggtnacncn 480  
 gayggnaayt tycaymgngg ntaycayytn cargtnytn tncncnnga rgtnacnytn 540



ttycaraaym gnaaymgnac ngcngtntgy aargcngtng cnggnaarcc ngcngcncay 600  
 athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggws naaygggnacn 660  
 gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgycay 720  
 gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt nccngngcn 780  
 aaraarathw snaarathat htaywsnath taycayccnt aytaytayta yytngaycay 840  
 mgnggnathc ayytngtngt ngarwsncar tggytncara arath 885

<210> 15  
 <211> 978  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: rodent; surmised  
 Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(978)  
 <223> n may be a, c, g, or t

<400> 15  
 atgttytgyt tytgmggnac nwsngcnytn gcngtynytny tnathtgggg ngntntygtn 60  
 gcnggnwsnw sntgyacnga yaaraaycar acnacncara ayaaywsnws nwsnccnytn 120  
 acncargtna ayacnacngt nwsngtncar athgggnacna argcnytnyt ntgytgytty 180  
 wsnathccny tnacnaargc ngtnytnath acntggatha thaarytnmg nggnytnccn 240  
 wsntgyacna thgcntayaa rgtngayacn aaracnaayg aracnwsntg yytngngmgn 300  
 aayathacnt gggcnwsnac nccngaycay wsncngary tncarathws ngcngtnacn 360  
 ytnarcayg arggnacnta yacntgygar acngtnacnc cngarggnaa yttygaraar 420  
 aaytaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccnga raaraaymgn 480  
 wsgcngtnt gygargcnat ggnggnaar ccngcngcnc arathwsntg gwsnccngay 540  
 ggngaytgyg tnacnacnws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600  
 tgycaytggg arcaraayaa ygtnwsngay gtnwsntgya thgtwnsna yytnacnggn 660  
 aaycarwsny tnwsnathga rytnwsnmgn ggnggnaayc arwsnytnmg nccntayath 720  
 ccntayatha thccnwsnat hathathytn athathathg gntgyathtg yytnytnaar 780  
 athwsnggnt tymgnaartg yaarytnccn aarytngarg cnacnwsngc nathgargar 840  
 gaygaratgc arccntaygc nwsntayacn garaarwsna ayccnytna ygayacngtn 900  
 acnaargtng argcnttycc ngtnwsncar ggngargtna ayggnacnga ytgyytnacn 960  
 ytnwsngcna thgggnath 978



<210> 16  
<211> 750  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: primate; surmised  
Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)..(750)  
<223> n may be a, c, g, or t

<400> 16  
atgggnggna arcaratgac ncaraaytay wsnacnatht tygcngargg naayathwsn 60  
carccngtny tnatggayat haaygcngtn ytntgytgyc cnccnathgc nytnmgnaay 120  
ytnathatha thacntggga rathathytn mgnggncarc cnwsntgyac naargcntay 180  
aaraargara cnaaygarac naargaracn aaytgyacng tngarmgnat hacntgggtn 240  
wsnmgnccng aycaraayws ngayytncar athmgncng tngayacnac ncaygayggn 300  
taytaymgng gnathgtngt nacncngay ggnaayttyc aymngngnta ycayytncar 360  
gtntyngtna cnccngargt naayytntty carwsnmgna ayathacngc ngtntgyaar 420  
gcngtnacng gnaarccngc ngncarath wsntggathc cngarggnws nathyngcn 480  
acnaarcarg artaytgggg naayggnacn gtnacngtna arwsnacntg yccntgggar 540  
ggncayaarw snacngtnac ntgycaygt nwncaaytna cnggnaayaa rwsnytnwsn 600  
gtnaarytna aywsnggnyt nmgnacnwsn ggnwsnccng cnytnwsnyt nytnathath 660  
ytntaygt naarytnwsnyt nttygtngtn athytngtna cnacnggntt ygtnttytty 720  
carmgnatha aycaygtnmg naargtnytn 750

<210> 17  
<211> 582  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: rodent; surmised  
Mus musculus

<220>  
<221> misc\_feature  
<222> (1)..(582)  
<223> n may be a, c, g, or t

<400> 17  
mgnggncarc cnwsntgyat hatggcntay aargtngara cnaargarac naaygaracn 60  
tgyytnggngm gnaayathac ntgggcnwsn acncngayc ayathccnga yytnicarath 120  
wsngcngtny cnytnarca ygarggnaay tayytntgyg arathacnac nccngarggn 180  
aayttycaya argntayga yytncargtn ytngtnccnc cngargtnac ntayttyytn 240



ggngaraaym gnacngcngt ntgygargcn atggcnggna arccngcngc ncarathwsn 300  
 tggacnccng ayggngaytg ygtnacnaar wsngarwsnc aywsnaaygg nacngtnacn 360  
 gtnmgnewsna cntgycaytg ggarcaraay aaygtnwsng cngtnwsntg yathgtnwsn 420  
 caywsnacng gnaaycarws nytnwsnath garytnwsnm gnggnacnac nwsnacnacn 480  
 ccnwsnytny tnacnathyt ntaygtnaar atggtnytny tnggnathat hytnytnaar 540  
 gtnggnttyg cnttyttyca raarmgnaay gtnacnmgna cn 582

<210> 18  
 <211> 834  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: rodent; surmised  
 Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(834)  
 <223> n may be a, c, g, or t

<400> 18  
 atgcaygcny tnggnmgna nytnngcnytn atgytnytna thttyathac nathytnngtn 60  
 ccngarwsnw sntgywsngt naarggnmgna gargarathc cncngayga ywsnttyccn 120  
 ttywsngayg ayaayathht yccngayggg gtnggngtna cnatggarat hgarathath 180  
 acncngtnw sngtncarat hggnaathaar gcncarytnt tytgycaycc nwsnccnwsn 240  
 aargargena cnytnmgna htgggarath acncnmngng aytggccnws ntgymgnytn 300  
 ccntaymgng cngarytnca rcarathwsn aaraaratht gyacngarmg nggnacnacn 360  
 mgngtnccng cncaycayca rwsnwsngay ytnccnatha arwsnatggc nytnaarcay 420  
 gayggncayt aywsntgygm nathgaracn acngayggna thttycarga rmgncaysn 480  
 athcargtn cngngarara ymgnaengtn gtntgygarg cnathgcnws naarccngcn 540  
 atgcarathy tntggacncc ngaygargay tgygtnacna arwsnaarws ncayaaygay 600  
 acnatgathg tnmgnwsnaa rtgycaymgn garaaraaya ayggncayws ngtnnttytg 660  
 ttyathwsnc ayytnacnga yaaytgath ytnwsnatgg arcaraaymg nggnacnacn 720  
 wsnathytn cwnsytnyt nwsnathytn taygtnaary tngcngtnac ngtnytnath 780  
 gtnggnttyg cnttyttyca raarmgnaay taytymgng tncngargg nwsn 834

<210> 19  
 <211> 1047  
 <212> DNA  
 <213> Unknown

<220>



<223> Description of Unknown Organism: primate; surmised  
Homo sapiens

<220>

<221> CDS

<222> (1)..(1044)

<220>

<221> mat\_peptide

<222> (79)..(1044)

<400> 19

atg ctc tgc cct tgg aga act gct aac cta ggg cta ctg ttg att ttg	48
Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu	
-25 -20 -15	
act atc ttc tta gtg gcc gaa gcg gag ggt gct gct caa cca aac aac	96
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn	
-10 -5 -1 1 5	
tca tta atg ctg caa act agc aag gag aat cat gct tta gct tca agc	144
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser	
10 15 20	
agt tta tgt atg gat gaa aaa cag att aca cag aac tac tcg aaa gta	192
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val	
25 30 35	
ctc gca gaa gtt aac act tca tgg cct gta aag atg gct aca aat gct	240
Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala	
40 45 50	
gtg ctt tgt tgc cct cct atc gca tta aga aat ttg atc ata ata aca	288
Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr	
55 60 65 70	
tgg gaa ata atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac agg	336
Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg	
75 80 85	
aaa gaa aca aat gag acc aag gaa acc aac tgt act gat gag aga ata	384
Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile	
90 95 100	
acc tgg gtc tcc aga cct gat cag aat tcg gac ctt cag att cgt cca	432
Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro	
105 110 115	
gtg gcc atc act cat gac ggg tat tac aga tgc ata atg gta aca cct	480
Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro	
120 125 130	
gat ggg aat ttc cat cgt gga tat cac ctc caa gtg tta gtt aca cct	528
Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro	
135 140 145 150	
gaa gtg acc ctg ttt caa aac agg aat aga act gca gta tgc aag gca	576
Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala	
155 160 165	
gtt gca ggg aag cca gct gcg cag atc tcc tgg atc cca gag ggc gat	624
Val Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Asp	
170 175 180	



tgt gcc act aag caa gaa tac tgg agc aat ggc aca gtg act gtt aag	672
Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys	
185 190 195	
agt aca tgc cac tgg gag gtc cac aat gtg tct acc gtg acc tgc cac	720
Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His	
200 205 210	
gtc tcc cat ttg act ggc aac aag agt ctg tac ata gag cta ctt cct	768
Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro	
215 220 225 230	
gtt cca ggt gcc aaa aaa tca gca aaa tta tat att cca tat atc atc	816
Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile	
235 240 245	
ctt act att att att ttg acc atc gtg gga ttc att tgg ttg ttg aaa	864
Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys	
250 255 260	
gtc aat ggc tgc aga aaa tat aaa ttg aat aaa aca gaa tct act cca	912
Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro	
265 270 275	
gtt gtt gag gag gat gaa atg cag ccc tat gcc agc tac aca gag aag	960
Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys	
280 285 290	
aac aat cct ctc tat gat act aca aac aag gtg aag gca tct cag gca	1008
Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Gln Ala	
295 300 305 310	
tta caa agt gaa gtt gac aca gac ctc cat act tta taa	1047
Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu	
315 320	

<210> 20  
 <211> 348  
 <212> PRT  
 <213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised  
 Homo sapiens

<400> 20

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu	
-25 -20 -15	
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn	
-10 -5 -1 1 5	
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser	
10 15 20	
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val	
25 30 35	
Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala	
40 45 50	
Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr	



55		60		65		70									
Trp	Glu	Ile	Ile	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Arg
				75					80					85	
Lys	Glu	Thr	Asn	Glu	Thr	Lys	Glu	Thr	Asn	Cys	Thr	Asp	Glu	Arg	Ile
			90					95					100		
Thr	Trp	Val	Ser	Arg	Pro	Asp	Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro
		105					110					115			
Val	Ala	Ile	Thr	His	Asp	Gly	Tyr	Tyr	Arg	Cys	Ile	Met	Val	Thr	Pro
	120					125					130				
Asp	Gly	Asn	Phe	His	Arg	Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro
135					140					145					150
Glu	Val	Thr	Leu	Phe	Gln	Asn	Arg	Asn	Arg	Thr	Ala	Val	Cys	Lys	Ala
				155					160					165	
Val	Ala	Gly	Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Asp
			170					175					180		
Cys	Ala	Thr	Lys	Gln	Glu	Tyr	Trp	Ser	Asn	Gly	Thr	Val	Thr	Val	Lys
		185					190					195			
Ser	Thr	Cys	His	Trp	Glu	Val	His	Asn	Val	Ser	Thr	Val	Thr	Cys	His
	200					205					210				
Val	Ser	His	Leu	Thr	Gly	Asn	Lys	Ser	Leu	Tyr	Ile	Glu	Leu	Leu	Pro
215					220					225					230
Val	Pro	Gly	Ala	Lys	Lys	Ser	Ala	Lys	Leu	Tyr	Ile	Pro	Tyr	Ile	Ile
			235					240						245	
Leu	Thr	Ile	Ile	Ile	Leu	Thr	Ile	Val	Gly	Phe	Ile	Trp	Leu	Leu	Lys
		250						255					260		
Val	Asn	Gly	Cys	Arg	Lys	Tyr	Lys	Leu	Asn	Lys	Thr	Glu	Ser	Thr	Pro
	265						270					275			
Val	Val	Glu	Glu	Asp	Glu	Met	Gln	Pro	Tyr	Ala	Ser	Tyr	Thr	Glu	Lys
	280					285					290				
Asn	Asn	Pro	Leu	Tyr	Asp	Thr	Thr	Asn	Lys	Val	Lys	Ala	Ser	Gln	Ala
295					300					305					310
Leu	Gln	Ser	Glu	Val	Asp	Thr	Asp	Leu	His	Thr	Leu				
			315						320						

<210> 21  
 <211> 1044  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Description of Unknown Organism: primate; surmised  
 Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1044)  
 <223> n may be a, c, g, or t



<400> 21  
atgytntgyc cntggmgnac ngcnaaytn ggnytnytny tnathytnac nathttytn 60  
gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120  
garaaycayg cnytnngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180  
taywsnaarg tnytnngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240  
gtnytntgyt gyccnccnat hgcnymgmgn aayytnatha thathacntg ggarathath 300  
ytnmgnggnc arccnwsntg yacnaargcn taymgnaarg aracnaayga racnaargar 360  
acnaaytgga cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420  
carathmgnc cngtngcnat hacncaygay ggntaytaym gntgyathat ggtnacnccn 480  
gayggnaayt tycaymgngg ntaycayytn cargtnytn tncnccnga rgtnacnytn 540  
ttycaraaym gnaaymgmac ngcngtntgy aargcngtng cnggnaarcc ngcngcnar 600  
athwsntgga thccngargg ngaytgygn acnaarcarg artaytgows naayggmacn 660  
gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgygay 720  
gtwnsnayy tncnggnaa yaarwsnytn tayathgary tnytnccngt nccnggngcn 780  
aaraarwsng cnaarynta yathccntay athathytna cnathathat hytnacnath 840  
gtnggnttya thtgytynt naargtnaay ggntgymgna artayaaryt naayaaracn 900  
garwsnacnc cngtngtna rgargaygar atgcarccnt aygcnwsnta yacngaraar 960  
aayaayccny tntaygayac nacnaayaar gtnaargcnw sncargcny ncarwsngar 1020  
gtngayacng ayytnayac nytn 1044

<210> 22  
<211> 813  
<212> DNA  
<213> Unknown

<220>  
<223> Description of Unknown Organism: rodent; surmised  
Mus musculus

<220>  
<221> CDS  
<222> (1)..(810)

<220>  
<221> mat\_peptide  
<222> (76)..(810)

<400> 22  
atg cat gct ctg ggg agg att ccg act ttg act ttg ctg atc ttc atc 48  
Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile  
-25 -20 -15 -10  
aat att ttt gtg tct ggg tca agt tgt act gat gag aat caa aca ata 96  
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile  
-5 -1 1 5



cag aat gac agt tca tct tct ctg aca caa gtt aac act aca atg tct	144
Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser	
10 15 20	
gta cag atg gat aaa aag gct ctg ctc tgc tgc ttt tct agt cca ctg	192
Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu	
25 30 35	
ata aat gca gta tta atc aca tgg ata ata aaa cac aga cac ctg cct	240
Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro	
40 45 50 55	
tcc tgc aca ata gca tac aac cta gat aaa aag acc aat gaa acc agc	288
Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser	
60 65 70	
tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct gac cac agt cct	336
Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro	
75 80 85	
gaa ctt cag atc agt gca gtg gcc ctc cag cat gag ggg act tac aca	384
Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr	
90 95 100	
tgt gag ata gta aca cct gaa ggg aat tta gaa aaa gtc tat gac ctc	432
Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu	
105 110 115	
caa gtg ctg gtg ccc cct gag gta acc tac ttt cca ggg aaa aac aga	480
Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg	
120 125 130 135	
act gca gtc tgt gag gca atg gca ggc aag cct gct gca cag atc tct	528
Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser	
140 145 150	
tgg act cca gat ggg gac tgt gtc act aag agt gag tca cac agc aat	576
Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn	
155 160 165	
ggc act gtg act gtc agg agc acg tgc cac tgg gag cag aac aat gtg	624
Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val	
170 175 180	
tct gtt gtg tcc tgc tta gtc tct cat tgc act ggt aat cag tct ctg	672
Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu	
185 190 195	
tcc ata gaa ctg agt caa ggt aca atg acc acc ccc cgt tcc ttg ctg	720
Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu	
200 205 210 215	
acc att ctc tat gtg aaa atg gcc ctt ttg gtg att att ctt ctt aac	768
Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn	
220 225 230	
gta gga ttt gct ttc ttc cag aag aga aat ttt gcc aga aca tga	813
Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr	
235 240 245	

<210> 23



<211> 270  
 <212> PRT  
 <213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised  
 Mus musculus

<400> 23

Met	His	Ala	Leu	Gly	Arg	Ile	Pro	Thr	Leu	Thr	Leu	Leu	Ile	Phe	Ile	
-25					-20					-15					-10	
Asn	Ile	Phe	Val	Ser	Gly	Ser	Ser	Cys	Thr	Asp	Glu	Asn	Gln	Thr	Ile	
				-5				-1	1				5			
Gln	Asn	Asp	Ser	Ser	Ser	Ser	Leu	Thr	Gln	Val	Asn	Thr	Thr	Met	Ser	
			10				15					20				
Val	Gln	Met	Asp	Lys	Lys	Ala	Leu	Leu	Cys	Cys	Phe	Ser	Ser	Pro	Leu	
	25					30					35					
Ile	Asn	Ala	Val	Leu	Ile	Thr	Trp	Ile	Ile	Lys	His	Arg	His	Leu	Pro	
40					45					50					55	
Ser	Cys	Thr	Ile	Ala	Tyr	Asn	Leu	Asp	Lys	Lys	Thr	Asn	Glu	Thr	Ser	
				60					65					70		
Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro	Asp	His	Ser	Pro	
			75					80					85			
Glu	Leu	Gln	Ile	Ser	Ala	Val	Ala	Leu	Gln	His	Glu	Gly	Thr	Tyr	Thr	
		90					95					100				
Cys	Glu	Ile	Val	Thr	Pro	Glu	Gly	Asn	Leu	Glu	Lys	Val	Tyr	Asp	Leu	
	105					110					115					
Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Pro	Gly	Lys	Asn	Arg	
120					125					130					135	
Thr	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala	Ala	Gln	Ile	Ser	
				140					145					150		
Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val	Thr	Lys	Ser	Glu	Ser	His	Ser	Asn	
			155					160					165			
Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu	Gln	Asn	Asn	Val	
		170					175					180				
Ser	Val	Val	Ser	Cys	Leu	Val	Ser	His	Ser	Thr	Gly	Asn	Gln	Ser	Leu	
	185					190					195					
Ser	Ile	Glu	Leu	Ser	Gln	Gly	Thr	Met	Thr	Thr	Pro	Arg	Ser	Leu	Leu	
200					205					210					215	
Thr	Ile	Leu	Tyr	Val	Lys	Met	Ala	Leu	Leu	Val	Ile	Ile	Leu	Leu	Asn	
				220					225					230		
Val	Gly	Phe	Ala	Phe	Phe	Gln	Lys	Arg	Asn	Phe	Ala	Arg	Thr			
			235					240					245			

<210> 24  
 <211> 810  
 <212> DNA



<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised  
Mus musculus

<220>

<221> misc\_feature

<222> (1)..(810)

<223> n may be a, c, g, or t

<400> 24

atgcaygcny tnggnmgnat hccnacnytn acnytnyttna thttyathaa yathttygtn 60  
wsnggnwnsw sntgyacnga ygaraaycar acnathcara aygaywsnws nwsnwsnytn 120  
acncargtna ayacnacnat gwsngtncar atggayaara argcnytnyt ntgytgytty 180  
wsnwsnccny tnathaaygc ngtnytnath acntggatha thaarcaymg ncayytnccn 240  
wsntgyacna thgcntayaa yytngayaar aaracnaayg aracnwsntg yytnggnmgn 300  
aayathacnt gggcnwnsnac nccngaycay wsncngary tncarathws ngcngtngcn 360  
ytncarcayg arggnacnta yacntgygar athgtnacnc cngarggnaa yytngaraar 420  
gtntaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccngg naaraaymgn 480  
acngcngtnt gygargcnat ggcnggnaar ccngcngcnc arathwsntg gacnccngay 540  
ggngaytgyg tnacnaarws ngarwsncay wsnaayggna cngtnacngt nmgnwnsnacn 600  
tgycaytggg arcaraayaa ygtwnsngtn gtnwsntggy tngtnwsnca ywsnacnggn 660  
aaycarwsny tnwsnathga rytwnsncar ggnacnatga cnacnccnmg nwsnytnytn 720  
acnathytn aygtnaarat ggcnytnytn gtnathathy tnytnaaygt nggnttygcn 780  
ttyttycara armgnaaytt ygcnmgnacn 810

<210> 25

<211> 34

<212> PRT

<213> Mus musculus

<400> 25

Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu Ile Trp  
1 5 10 15  
Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr  
20 25 30  
Gln Asn

<210> 26

<211> 34

<212> PRT

<213> Rattus rattus

<400> 26

Met Leu Cys Phe Trp Arg Thr Ser His Val Ala Val Leu Leu Ile Trp  
1 5 10 15  
Gly Val Phe Ala Ala Glu Ser Ser Cys Pro Asp Lys Asn Gln Thr Met



Gln Asn                    20                    .                    25                    30

<210> 27  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 27  
 Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu  
   1                                  5                                  10                                  15  
 Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn  
                                   20                                  25                                  30  
 Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser  
                                   35                                  40                                  45  
 Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn  
       50                                  55                                  60

<210> 28  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 28  
 Met Gly Gly Lys Gln Met Thr Gln Asn  
   1                                  5

<210> 29  
 <211> 59  
 <212> PRT  
 <213> Mus musculus

<400> 29  
 Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser Val Gln  
   1                                  5                                  10                                  15  
 Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu Thr Lys  
                                   20                                  25                                  30  
 Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro Ser Cys  
                                   35                                  40                                  45  
 Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn  
       50                                  55

<210> 30  
 <211> 59  
 <212> PRT  
 <213> Rattus rattus

<400> 30  
 Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val Gln Met  
   1                                  5                                  10                                  15  
 Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr Lys Val  
                                   20                                  25                                  30  
 Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile  
                                   35                                  40                                  45  
 Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His  
       50                                  55

<210> 31



<211> 18  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 31  
 Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu  
 1 5 10 15  
 Thr Asn  
  
 <210> 32  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 32  
 Tyr Ser Lys Val Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met  
 1 5 10 15  
 Ala Thr Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu  
 20 25 30  
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr  
 35 40 45  
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys  
 50 55  
  
 <210> 33  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 33  
 Tyr Ser Thr Ile Phe Ala Glu Gly Asn Ile Ser Gln Pro Val Leu Met  
 1 5 10 15  
 Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu  
 20 25 30  
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr  
 35 40 45  
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys  
 50 55  
  
 <210> 34  
 <211> 60  
 <212> PRT  
 <213> Mus musculus  
  
 <400> 34  
 Glu Thr Ser Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp  
 1 5 10 15  
 His Ser Pro Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly  
 20 25 30  
 Thr Tyr Thr Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn  
 35 40 45  
 Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr  
 50 55 60  
  
 <210> 35  
 <211> 60  
 <212> PRT  
 <213> Rattus rattus



<400> 35  
 Glu Ser Asn Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp  
 1 5 10 15  
 Leu Ala Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly  
 20 25 30  
 Arg Tyr Ser Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile  
 35 40 45  
 Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr  
 50 55 60

<210> 36  
 <211> 59  
 <212> PRT  
 <213> Mus musculus

<400> 36  
 Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His  
 1 5 10 15  
 Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn  
 20 25 30  
 Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr  
 35 40 45  
 Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr  
 50 55

<210> 37  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 37  
 Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro Asp  
 1 5 10 15  
 Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp Gly  
 20 25 30  
 Tyr Tyr Arg Cys Ile Met Val Thr Pro Asp Gly Asn Phe His Arg Gly  
 35 40 45  
 Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr  
 50 55 60

<210> 38  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 38  
 Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val Ser Arg Pro Asp  
 1 5 10 15  
 Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr Thr His Asp Gly  
 20 25 30  
 Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn Phe His Arg Gly  
 35 40 45  
 Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn  
 50 55 60

<210> 39  
 <211> 59  
 <212> PRT  
 <213> Mus musculus



<400> 39  
Tyr Phe Pro Glu Lys Asn Arg Ser Ala Val Cys Glu Ala Met Ala Gly  
1 5 10 15  
Lys Pro Ala Ala Gln Ile Ser Trp Ser Pro Asp Gly Asp Cys Val Thr  
20 25 30  
Thr Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys  
35 40 45  
His Trp Glu Gln Asn Asn Val Ser Asp Val Ser  
50 55

<210> 40  
<211> 59  
<212> PRT  
<213> Rattus rattus

<400> 40  
His Phe Pro Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Ile Ala Gly  
1 5 10 15  
Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Ala  
20 25 30  
Lys Asn Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys  
35 40 45  
His Trp Glu Gln Ser His Val Ser Val Val Phe  
50 55

<210> 41  
<211> 59  
<212> PRT  
<213> Mus musculus

<400> 41  
Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly  
1 5 10 15  
Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr  
20 25 30  
Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys  
35 40 45  
His Trp Glu Gln Asn Asn Val Ser Ala Val Ser  
50 55

<210> 42  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 42  
Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly  
1 5 10 15  
Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr  
20 25 30  
Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys  
35 40 45  
His Trp Glu Val His Asn Val Ser Thr Val Thr  
50 55

<210> 43  
<211> 59  
<212> PRT  
<213> Homo sapiens



<400> 43  
 Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly  
 1 5 10 15  
 Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala  
 20 25 30  
 Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr  
 35 40 45  
 Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr  
 50 55

<210> 44  
 <211> 59  
 <212> PRT  
 <213> Mus musculus

<400> 44  
 Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu  
 1 5 10 15  
 Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile Pro Tyr Ile Ile  
 20 25 30  
 Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu Lys  
 35 40 45  
 Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys  
 50 55

<210> 45  
 <211> 60  
 <212> PRT  
 <213> Rattus rattus

<400> 45  
 Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu  
 1 5 10 15  
 Leu Gly Arg Gly Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile  
 20 25 30  
 Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu  
 35 40 45  
 Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys  
 50 55 60

<210> 46  
 <211> 52  
 <212> PRT  
 <213> Mus musculus

<400> 46  
 Cys Ile Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu  
 1 5 10 15  
 Ser Arg Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr  
 20 25 30  
 Val Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala  
 35 40 45  
 Phe Phe Gln Lys  
 50

<210> 47  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens



<400> 47  
 Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu  
 1 5 10 15  
 Leu Pro Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile  
 20 25 30  
 Tyr His Pro Tyr Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val  
 35 40 45  
 Val Glu  
 50

<210> 48  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 48  
 Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu  
 1 5 10 15  
 Asn Ser Gly Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile  
 20 25 30  
 Ile Leu Tyr Val Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr  
 35 40 45  
 Gly Phe Val Phe Phe Gln Arg  
 50 55

<210> 49  
 <211> 55  
 <212> PRT  
 <213> Mus musculus

<400> 49  
 Leu Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala  
 1 5 10 15  
 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val  
 20 25 30  
 Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu  
 35 40 45  
 Thr Leu Ser Ala Ile Gly Ile  
 50 55

<210> 50  
 <211> 55  
 <212> PRT  
 <213> Rattus rattus

<400> 50  
 Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala  
 1 5 10 15  
 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr  
 20 25 30  
 Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu  
 35 40 45  
 Thr Leu Ser Ala Met Gly Ile  
 50 55

<210> 51  
 <211> 6  
 <212> PRT  
 <213> Mus musculus



<400> 51  
 Arg Asn Val Thr Arg Thr  
 1 5

<210> 52  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 52  
 Ser Gln Trp Leu Gln Lys Ile  
 1 5

<210> 53  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 53  
 Ile Asn His Val Arg Lys Val Leu  
 1 5

<210> 54  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 54  
 Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu  
 1 5 10 15  
 Gly Asn Ile Ser Gln Pro Val Leu  
 20

<210> 55  
 <211> 50  
 <212> PRT  
 <213> Mus musculus

<400> 55  
 Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile  
 1 5 10 15  
 Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile  
 20 25 30  
 Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser  
 35 40 45  
 Val Gln  
 50

<210> 56  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 56  
 Met Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn  
 1 5 10 15  
 Leu Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys  
 20 25 30  
 Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys



35 40 45

Thr Val  
50

<210> 57  
<211> 23  
<212> PRT  
<213> Mus musculus

<400> 57  
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu  
1 5 10 15  
Thr Asn Glu Thr Cys Leu Gly  
20

<210> 58  
<211> 49  
<212> PRT  
<213> Mus musculus

<400> 58  
Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu Ile Asn  
1 5 10 15  
Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro Ser Cys  
20 25 30  
Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser Cys Leu  
35 40 45  
Gly

<210> 59  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 59  
Glu Arg Ile Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln  
1 5 10 15  
Ile Arg Pro Val Asp Thr Thr His Asp Gly Tyr Tyr Arg Gly Ile Val  
20 25 30  
Val Thr Pro Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu  
35 40 45  
Val Thr  
50

<210> 60  
<211> 50  
<212> PRT  
<213> Mus musculus

<400> 60  
Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ile Pro Asp Leu Gln  
1 5 10 15  
Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn Tyr Leu Cys Glu Ile  
20 25 30  
Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr Asp Leu Gln Val Leu  
35 40 45  
Val Pro  
50



<210> 61  
 <211> 50  
 <212> PRT  
 <213> Mus musculus

<400> 61  
 Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro Glu Leu Gln  
 1 5 10 15  
 Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr Cys Glu Ile  
 20 25 30  
 Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu Gln Val Leu  
 35 40 45  
 Val Pro  
 50

<210> 62  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 62  
 Pro Glu Val Asn Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys  
 1 5 10 15  
 Ala Val Thr Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly  
 20 25 30  
 Ser Ile Leu Ala Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr  
 35 40 45  
 Val Lys  
 50

<210> 63  
 <211> 49  
 <212> PRT  
 <213> Mus musculus

<400> 63  
 Pro Glu Val Thr Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu  
 1 5 10 15  
 Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly  
 20 25 30  
 Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val  
 35 40 45  
 Arg

<210> 64  
 <211> 49  
 <212> PRT  
 <213> Mus musculus

<400> 64  
 Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg Thr Ala Val Cys Glu  
 1 5 10 15  
 Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly  
 20 25 30  
 Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val  
 35 40 45  
 Arg



<210> 65  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 65  
 Ser Thr Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val  
 1 5 10 15  
 Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly  
 20 25 30  
 Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr  
 35 40 45  
 Val

<210> 66  
 <211> 47  
 <212> PRT  
 <213> Mus musculus

<400> 66  
 Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Ala Val Ser Cys Ile  
 1 5 10 15  
 Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg  
 20 25 30  
 Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr Val  
 35 40 45

<210> 67  
 <211> 47  
 <212> PRT  
 <213> Mus musculus

<400> 67  
 Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Val Val Ser Cys Leu  
 1 5 10 15  
 Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Gln  
 20 25 30  
 Gly Thr Met Thr Thr Pro Arg Ser Leu Leu Thr Ile Leu Tyr Val  
 35 40 45

<210> 68  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 68  
 Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe  
 1 5 10 15  
 Phe Gln Arg Ile Asn His Val Arg Lys Val Leu  
 20 25

<210> 69  
 <211> 25  
 <212> PRT  
 <213> Mus musculus

<400> 69  
 Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala Phe



1		5		10	15			
Phe	Gln	Lys	Arg	Asn	Val	Thr	Arg	Thr
			20				25	

<210> 70

<211> 25

<212> PRT

<213> Mus musculus

<400> 70

Lys	Met	Ala	Leu	Leu	Val	Ile	Ile	Leu	Leu	Asn	Val	Gly	Phe	Ala	Phe
1				5				10						15	
Phe	Gln	Lys	Arg	Asn	Phe	Ala	Arg	Thr							
			20				25								